

WHAT IS CLAIMED IS:

1. An information recording apparatus comprising:
  - a detection unit configured to detect a manufacturing error unique to an information storage medium;
  - a transmission unit configured to transmit the manufacturing error detected by the detection unit to an external apparatus;
  - a reception unit configured to receive a recordable capacity which is calculated by the external apparatus on the basis of the manufacturing error transmitted from the transmission unit;
  - a limitation unit configured to limit data to be supplied on the basis of the recordable capacity received by the reception unit; and
  - a recording/aborting unit configured to record the recording data, supply of which is limited by the limitation unit, or to abort recording of the recording data.
2. An apparatus according to claim 1, wherein the detection unit detects a disc tilt amount unique to the information storage medium,
  - the transmission unit transmits the disc tilt amount detected by the detection unit to the external apparatus, and
  - the reception unit receives the recordable capacity which is calculated by the external apparatus

on the basis of the disc tilt amount.

3. An apparatus according to claim 1, wherein the detection unit detects a read rate of prepits recorded on the information storage medium,

5           the transmission unit transmits the read rate of the prepits detected by the detection unit to the external apparatus, and

          the reception unit receives the recordable capacity which is calculated by the external apparatus on the basis of the read rate of the prepits.

10           4. An apparatus according to claim 1, wherein the detection unit detects a disc eccentricity amount unique to the information storage medium,

          the transmission unit transmits the disc eccentricity amount detected by the detection unit to the external apparatus, and

          the reception unit receives the recordable capacity which is calculated by the external apparatus on the basis of the disc eccentricity amount.

20           5. An apparatus according to claim 1, wherein the detection unit detects a read rate of wobble signals obtained in correspondence with wobbled tracks formed on the information storage medium,

          the transmission unit transmits the read rate of the wobble signals detected by the detection unit to the external apparatus, and

          the reception unit receives the recordable

capacity which is calculated by the external apparatus on the basis of the read rate of the wobble signals.

6. An apparatus according to claim 1, wherein the detection unit detects a manufacturing error in a  
5 predetermined area on the information storage medium on the basis of reflected light from the information storage medium, and determines if data can be recorded on this area,

the transmission unit transmits the manufacturing  
10 error in the predetermined area detected by the detection unit to the external apparatus, and

the reception unit receives the recordable capacity which is calculated by the external apparatus on the basis of the manufacturing error in the  
15 predetermined area.

7. An information recording apparatus comprising:

a detection unit configured to detect a manufacturing error unique to an information storage medium;

20 a determination unit configured to determine a recordable capacity of the information storage medium on the basis of the manufacturing error detected by the detection unit;

a limitation unit configured to limit data to be  
25 supplied on the basis of the recordable capacity determined by the determination unit; and

a recording/aborting unit configured to record the

recording data, supply of which is limited by the limitation unit, or to abort recording of the recording data.

5        8. An apparatus according to claim 7, wherein the detection unit detects a disc tilt amount unique to the information storage medium, and

the determination unit determines the recordable capacity of the information storage medium on the basis of the disc tilt amount.

10       9. An apparatus according to claim 7, wherein the detection unit detects a read rate of prepits recorded on the information storage medium, and

the determination unit determines the recordable capacity of the information storage medium on the basis of the read state of the prepits.

15       10. An apparatus according to claim 7, wherein the detection unit detects a disc eccentricity amount unique to the information storage medium, and

the determination unit determines the recordable capacity of the information storage medium on the basis of the disc eccentricity amount.

20       11. An apparatus according to claim 7, wherein the detection unit detects a read rate of wobble signals obtained in correspondence with wobbled tracks formed on the information storage medium, and

25       the determination unit determines the recordable capacity of the information storage medium on the basis

of the read rate of the wobble signals.

12. An apparatus according to claim 7, wherein the  
detection unit detects a manufacturing error in a  
predetermined area on the information storage medium on  
5 the basis of reflected light from the information  
storage medium, and determines if data can be recorded  
on this area, and

the determination unit determines the recordable  
capacity of the information storage medium on the basis  
10 of the manufacturing error in the predetermined area  
and the recordable/unrecordable determination result of  
data in the predetermined area.